

Message

**From:** RecycledTireCrumb [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9DEB311BBCBE4D7387D112B26C1D4AF0-RECYCLEDTIR]  
**Sent:** 11/26/2019 9:02:18 PM  
**To:** Karen Mathewson, M.D. **Ex. 6 Personal Privacy (PP)**  
**Subject:** RE: Study findings regarding leaching of chemicals

Hi Karen.

Thanks for your inquiry. The FRAP research does not include assessments of leaching of chemicals to the environment, nor potential ecological exposures and impacts. In the FRAP [Literature Review and Data Gaps Analysis](#), while our focus was on human exposures and impacts, there are 36 [literature citations](#) related to studies of leaching and 7 citations related to stormwater run-off:

Table B-4. Number of Studies that Addressed Various Topic Areas	
Leaching	36
Human Risk	32
Human Exposure	27
Eco Exposure/Risk	26
Literature Review	24
Toxicity Assessment	19
Constituent Characterization	16
Headspace/de-gassing-Bulk (lab)	13
Off-gassing/volatilizing (field)	12
Site Monitoring	12
Data Gaps	11
Stormwater Runoff	7
Microbial	7
Production Process	6
Bioavailability	5
Modeling	5
Site Characterization	4
Biomonitoring	3
Risk Communication	2
Epidemiologic	0
Other	31

We hope you find this information helpful.

Sincerely,

José L. Zambrana, Jr., PhD  
Senior Science Advisor, Center for Environmental Measurement and Modeling (CEMM)  
Office of Research and Development (ORD), US EPA  
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José Zambrana

**From:** Karen Mathewson, M.D. <**Ex. 6 Personal Privacy (PP)**>  
**Sent:** Friday, November 01, 2019 4:56 PM

**To:** RecycledTireCrumb <RecycledTireCrumb@epa.gov>

**Subject:** Study findings regarding leaching of chemicals

To whom it may concern:

Thank you for your work on tire crumb rubber. I was wondering if there is any data on chemicals or metals being found in stormwater or runoff from the fields?

The city I live in is contemplating putting an artificial turf field in a neighborhood abutting homes and a riverine which drains into Long Island Sound and I am wondering if there is any work being done on how this type of exposure which would be more chronic is being looked at.

Thank you-

Karen Mathewson MD

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**Karen Mathewson, MD**

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